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### **Amendments to the Claims:**

This listing of claims replaces all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1-21. (Cancelled).

22. (Previously Presented) An Electronic Support Measures system for detecting and identifying radar signals present in an area, comprising:

a plurality of antenna sets for receiving the radar signals, each antenna set including at least one antenna and each set covering a sector of the surrounding area;

a plurality of receiver front ends, each receiver front end being connected to an antenna set covering a specific sector;

a plurality of first band-pass filters connected to a first antenna set, said band-pass filters splitting the signals received from the first antenna set into a number of first sub-bands;

a plurality of first low noise preamplifiers, each connected with its input to a first band-pass filter and the output connected to one of a corresponding number of first mixers, said mixers being adapted to convert a first sub-band into an Intermediate Frequency (1<sup>st</sup> IF), the output from each first mixer being fed to a second band-pass filter tuned to the frequency of said Intermediate Frequency, an output of said second band-pass filters being connected to a first adder, said adder being adapted to combine the signals from the second band-pass filters into a common Intermediate Frequency channel;

a plurality of receiver second stages, each connected to a receiver front end and receiving said common intermediate frequency channel, said intermediate frequency channel being fed to a number of third band-pass filters in order to split said common intermediate frequency channel into a number of second sub-bands, the output of each third band-pass filter being fed to a second amplifier, the output of the second amplifier being fed to a second mixer, said second mixer being adapted to convert said intermediate frequency channel into baseband, the output of the second mixer being fed